

### **Pre-Cal Algebraic Concepts to know**

1. Order of Operations, emphasis on integers and signs.
2. Distribution and combining like terms
3. Exponential Rules
4. Factoring:  $a=1$ ,  $a \neq 1$ , difference of perfect squares, sum and difference of perfect cubes
5. Solving linear multi-step equations.
6. Solving Absolute value equations (must set up two equations)
7. Solving Quadratics: factoring, quadratic formula
8. Synthetic Division, long division (what does it mean when the remainder is 0?)
9. Writing equation of a line (parallel and perpendicular)
10. Graphing Linear functions (from slope-intercept form and standard form)
11. Graphing Quadratics (From standard form / vertex form)
12. You can graph any function by doing T-Chart.
13. Translations/Transformations (Shifting up, down, left, right, stretching and compressing)